



Attorney Docket No.: 3800073.00005 / 922

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gantier *et al.*  
Patent No. : 7,611,700  
Issue Date : November 3, 2009  
Serial No. : 10/658,834  
Filed : September 8, 2003

Art Unit : 1647  
Examiner : Stoica, Elly Gerald  
Conf. No. : 7681  
Cust. No. : 77202

Title : **PROTEASE RESISTANT MODIFIED INTERFERON ALPHA  
POLYPEPTIDES**

**Attn: Certificate of Corrections Branch**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

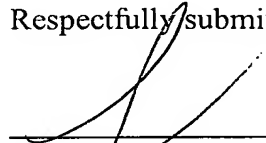
**TRANSMITTAL LETTER**

Dear Sir:

Transmitted herewith are a Request for Correction to Certificate of Correction (2 pages), Certificate of Correction (1 page), a hand-corrected version of the issued Certificate of Correction issued on March 4, 2010 (2 pages), and a return postcard for filing in connection with the above-identified application. All errors sought to be corrected were made in printing by the Patent and Trademark Office, and no fee is believed to be due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 02-1818, as stated below:

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 02-1818. A duplicate of this sheet is enclosed.

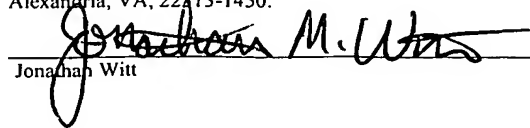
Respectfully submitted,

  
Stephanie Seidman  
Reg. No. 33,779

Attorney Docket No. 3800073.00005/ 922  
**Address all correspondence to: 77202**  
Stephanie Seidman  
K&L Gates LLP  
3580 Carmel Mountain Road, Suite 200  
San Diego, California 92130  
Telephone: (858) 509-7410  
Facsimile: (858) 509-7460  
email: stephanie.seidman@klgates.com

**Certificate**  
**JUN 18 2010**  
**of Correction**

CERTIFICATE OF MAILING BY "EXPRESS MAIL"  
"Express Mail" Mailing Label Number: EM 315456523 US  
Date of Deposit: June 14, 2010  
I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Attn: Certificate of Correction Branch, Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

  
Jonathan Witt



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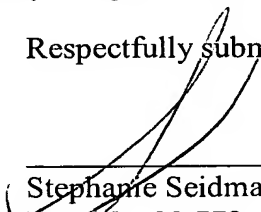
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San Diego, California 92130

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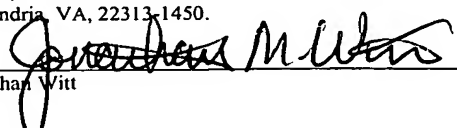
email: stephanie.seidman@klgates.com

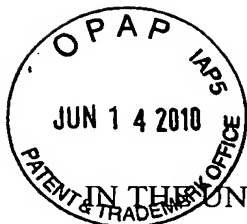
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Date of Deposit: June 14, 2010

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Alexandria, VA 22313-1450

**REQUEST FOR CORRECTION TO ISSUED CERTIFICATE OF CORRECTION**

Dear Sir:

Issuance of a corrected Certificate of Correction for the above-referenced patent respectfully is requested. A new error was introduced by the PTO in the Certificate of Correction issued on May 4, 2010. Correction of the following error introduced by the PTO respectfully is requested:

In issued Claim 1, on page 2 of the Certificate of Correction issued on May 4, 2010, in line 21 the PTO incorrectly printed "á-2c" in place of "α-2c". Please replace "á-2c" so that the claim now recites — α-2c —, as originally recited in the issued patent.

A hand-corrected version of the Certificate of Correction issued on May 4, 2010 for the above captioned patent is attached. Also attached is a new Certificate of Correction, which correctly presents Claim 1.

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

"Express Mail" Mailing Label Number: EM 315456523 US  
Date of Deposit: June 14, 2010.

I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Attn.: Certificate of Correction Branch Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

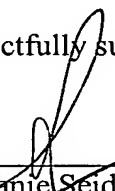
Jonathan Witt

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Issue Date : November 3, 2009  
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Attorney Docket No.: 3800073.00005 / 922  
**Request for Correction to Issued Certificate of Correction**

The error sought to be corrected was made in printing by the Patent and Trademark Office, and no fee should be due. If it is determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 02-1818.

Respectfully submitted,

  
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**Request for Correction to Issued Certificate of Correction**

NEW CERTIFICATE OF CORRECTION  
PROVIDING CLAIM 1

Staple  
Here  
Only**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO.           .: 7,611,700  
APPLICATION NO   .: 10/658,834  
DATED               .: NOVEMBER 3, 2009  
INVENTOR(S)       .: GANTIER ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**IN THE CLAIMS:**

Column 87, line 32 to Column 87, line 47

1. An isolated interferon (IFN) alpha cytokine, comprising an amino acid replacement in its sequence of amino acids, wherein:  
an amino acid replacement is E41Q, whereby the interferon alpha cytokine exhibits increased resistance to proteolysis so that it can be administered orally compared to the unmodified interferon alpha cytokine that does not comprise the amino acid replacement; and  
in the interferon-alpha cytokine the interferon is not glycosylated at E41Q; and  
the unmodified interferon alpha cytokine is selected from among an interferon  $\alpha$ -2b (IFN $\alpha$ -2b), an interferon  $\alpha$ -2a (IFN $\alpha$ -2a), an interferon  $\alpha$ -2c (IFN $\alpha$ -2c) and consensus interferon whose sequences are set forth in SEQ ID Nos. 1, 182, 185 and 232, respectively.

**MAILING ADDRESS OF SENDER:**

Stephanie Seidman  
K&L Gates, LLP  
3580 Carmel Mountain Road, Suite 200  
San Diego, CA, 92130

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Filed : September 8, 2003

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**Request for Correction to Issued Certificate of Correction**

HAND-ANNOTATED CORRECTIONS TO THE  
CERTIFICATE OF CORRECTION  
ISSUED ON 22 MARCH 2010

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,611,700 B2  
APPLICATION NO. : 10/658834  
DATED : November 3, 2009  
INVENTOR(S) : Gantier et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 7, lines 15-16, please replace "SEQ ID Nos: 233-289), 989-1015, and 1016-1302)compared" with -- SEQ ID Nos: 233-289, 989-1015, and 1016-1302) compared --;

At column 7, line 47, please replace "(SEQ ID NO:216)based" with -- (SEQ ID NO:216) based --;

At column 7, lines 51-52, please replace "SEQ ID Nos: 794-849), compared" with -- SEQ ID Nos: 794-849) compared --;

At column 7, lines 57-58, please replace "SEQ ID Nos: 896-939), compared" with -- SEQ ID Nos: 896-939) compared --;

At column 7, line 64, please replace "(SEQ ID NO:211),based" with -- (SEQ ID NO:211), based --;

At column 8, line 2, please replace "SEQ ID Nos: 729-760), compared" with -- SEQ ID Nos: 729-760) compared --;

At column 8, lines 8-9, please replace "SEQ ID Nos: 761-763), compared" with -- SEQ ID Nos: 761-763) compared --;

At column 8, lines 16-17, please replace "Nos: 940-977), compared to the wild-type sequence (SEQ ID NO: 201),based" with -- Nos: 940-977) compared to the wild-type sequence (SEQ ID NO: 201), based --;

At column 8, lines 21-22, please replace "SEQ ID Nos: 401-428), compared to residues 1-1000" with --SEQ ID Nos: 401-428) compared to residues 1-100 --;

At column 8, lines 29-30, please replace "SEQ ID Nos: 362-400), compared to the wild-type sequence (SEQ ID NO: 202),based" with -- SEQ ID Nos: 362-400) compared to the wild-type sequence (SEQ ID NO: 202), based --;

At column 8, lines 35-36, please replace "SEQ ID Nos: 603-630), compared" with -- SEQ ID Nos: 603-630) compared --;

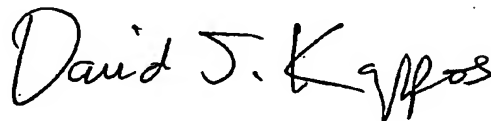
At column 8, lines 40-41, please replace "SEQ ID Nos: 429-476), compared" with -- SEQ ID Nos: 429-476) compared --;

At column 8, lines 46-47, please replace "SEQ ID Nos:477-498), compared" with -- SEQ ID Nos: 477-498) compared --;

At column 8, lines 52-53, please replace "SEQ ID Nos: 543-567), compared" with -- SEQ ID Nos: 543-567) compared --;

Signed and Sealed this

Fourth Day of May, 2010



David J. Kappos  
*Director of the United States Patent and Trademark Office*



At column 8, lines 58-59, please replace "SEQ ID Nos: 568-602), compared" with -- SEQ ID Nos: 568-602) compared --;

At column 8, lines 64-65, please replace "SEQ ID Nos: 499-542), compared" with -- SEQ ID Nos: 499-542) compared --;

At column 47, line 50, please replace "IFN $\alpha$ cytokines" with -- IFN $\alpha$  cytokines --;

At column 47, line 57, please replace "herein The" with -- herein. The --;

At column 52, line 41, please replace "10/658,355,filed" with -- 10/658,355, filed --;

At column 66, line 50, please replace "prostatate" with -- prostate --;

At column 74, line 29, please replace "aliquots" with -- aliquots --;

At column 74, line 33, please replace "analysis.Residual" with -- analysis. Residual --;

At column 74, line 26, please replace "IFN  $\alpha$ " with -- IFN- $\alpha$  --.

Column 87, line 32 to Column 87, line 47 should read

1. An isolated interferon (IFN) alpha cytokine, comprising an amino acid replacement in its sequence of amino acids, wherein:

an amino acid replacement is E41Q, whereby the interferon alpha cytokine exhibits increased resistance to proteolysis so that it can be administered orally compared to the unmodified interferon alpha cytokine that does not comprise the amino acid replacement; and

in the interferon-alpha cytokine the interferon is not glycosylated at E41Q; and

the unmodified interferon alpha cytokine is selected from among an interferon  $\alpha$ -2b (IFN $\alpha$ -2b), an interferon  $\alpha$ -2a (IFN $\alpha$ -2a), an interferon  ~~$\alpha$ -2c~~<sup>8-2c</sup> (IFN $\alpha$ -2c) and consensus interferon whose sequences are set forth in SEQ ID Nos. 1, 182, 185 and 232, respectively.

Column 87, line 48 to Column 87, line 64 should read

2. An interferon alpha cytokine selected from among IFN $\alpha$ -2b, IFN $\alpha$ -2a, IFN $\alpha$ -2c, consensus interferon, IFN $\alpha$ -c, IFN $\alpha$ -d, IFN $\alpha$ -5, IFN $\alpha$ -6, IFN $\alpha$ -4, IFN $\alpha$ -4b, IFN $\alpha$ -I, IFN $\alpha$ -J, IFN $\alpha$ -H, IFN $\alpha$ -F and IFN $\alpha$ -8, each comprising the modification E41Q, wherein:

the sequence of a human wild-type interferon alpha for each of IFN $\alpha$ -2b, IFN $\alpha$ -2a, IFN $\alpha$ -2c, consensus interferon, IFN $\alpha$ -c, IFN $\alpha$ -d, IFN $\alpha$ -5, IFN $\alpha$ -6, IFN $\alpha$ -4, IFN $\alpha$ -4b, IFN $\alpha$ -I, IFN $\alpha$ -J, IFN $\alpha$ -H, IFN $\alpha$ -F and IFN $\alpha$ -8; is set forth in SEQ ID Nos. 1, 182, 185, 232, 183 and 186-195, respectively; the modification at E41Q increases resistance of the interferon alpha cytokine so that it can be administered orally;

the interferon alpha cytokine is not glycosylated at E41Q; and

residue 1 in each SEQ ID corresponds to residue 1 of the mature interferon-alpha.